



Sustainable Energy Installations Ltd
Grove House
Lutyens Close
Chineham, Hampshire
RG24 8AG, UK
Tel: +44 (0)1256 392704
Fax: +44 (0)1256 392705
E-mail: sei@sei-energy.co.uk
<http://www.sei-energy.co.uk>

PROJECT SUMMARY

Project Name: Fernside Estate PV 100
Size of Installation: 108 kWp Photovoltaic installation split over 100 systems
Type of Installation: Retrofit
Client: Kirklees Metropolitan Council
Equipment: Module – 600 x BP7180s framed modules
Inverter – 100 x Fronius SunRise Micro
Mounting system – Conergy SunTop II
Completion Date: October 2005
Predicted Generation: 81,000 kWh per year

Project Summary

The installation at the Fernside Estate in Almondbury, Huddersfield, comprises 100 separate photovoltaic (PV) systems on social housing properties owned by Kirklees Metropolitan Council (KMC). Systems are installed on bungalows and two storey blocks of flats, and at 100 individual installations it is the largest grouped domestic PV installation in the UK.



Photo showing: two systems on semi-detached bungalows (foreground), four systems on a block of flats (background right) and a further three bungalow systems (background left)



Photo showing systems installed on blocks of flats

Technical Information

Each system has a rated power of 1.08 kW comprising of six high efficiency BP Solar BP7180s mono-crystalline PV modules and a Fronius SunRise inverter.

Social, Economic and Environmental Benefits

Fuel poverty is an issue with many of the residents at the Fernside Estate, the addition of a PV system directly connected to the distribution board of a dwelling allows for tenants to benefit directly from the energy generated. Generation for the site is predicted as 81,000 kWh per year, saving nearly 700 tonnes of CO₂ emissions over a twenty year period.



Several of the systems installed at the Fernside Estate